

# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/709,421	05/04/2004	Isaac Cohen	,	3420	
41427 7	590 11/17/2004		EXAMINER		
ISAAC COHEN 1171 CARLL'S STRAIGHT PATH			BERHANE, ADOLF D		
DIX HILLS, NY 11746			ART UNIT	PAPER NUMBER	
ŕ			2838	:	
			DATE MAILED: 11/17/2004	4 :	

Please find below and/or attached an Office communication concerning this application or proceeding.

		<del></del>	
	Application No.	Applicant(s)	
Office Action Summary	10/709,421	COHEN, ISAAC	
Omce Action Summary	Examiner	Art Unit	ل م
	Adolf Berhane	2838	pr
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence addre	9SS
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period versions after the reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ti y within the statutory minimum of thirty (30) da vill apply and will expire SIX (6) MONTHS fron , cause the application to become ABANDONE	mely filed ys will be considered timely. n the mailing date of this comn ED (35 U.S.C. § 133).	nunication.
Status			
1) Responsive to communication(s) filed on	<u></u>		
2a) This action is <b>FINAL</b> . 2b) ⊠ This	action is non-final.		
3) Since this application is in condition for allowar	nce except for formal matters, pr	osecution as to the m	erits is
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-4</u> is/are pending in the application.			
4a) Of the above claim(s) is/are withdraw	wn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-4</u> is/are rejected. 7)□ Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	r election requirement		
Application Papers			
<u> </u>			
9)☐ The specification is objected to by the Examine 10)☐ The drawing(s) filed on is/are: a)☐ acc		Evaminer	•
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct	· · · · · · · · · · · · · · · · · · ·	• •	1.121(d).
11) The oath or declaration is objected to by the Ex	• • • • • • • • • • • • • • • • • • • •	•	, ,
Priority under 35 U.S.C. § 119			
	priority under 2F LLC C C 440/-	) (d) or (f)	
<ul><li>12) Acknowledgment is made of a claim for foreign</li><li>a) All b) Some * c) None of:</li></ul>	priority under 35 U.S.C. § 119(8	i)-(a) or (t).	
1. ☐ Certified copies of the priority document	s have been received		
2. Certified copies of the priority document		tion No.	
3. Copies of the certified copies of the prior	, ,		age
application from the International Bureau	u (PCT Rule 17.2(a)).		•
* See the attached detailed Office action for a list	of the certified copies not receiv	ed.	
Attachment(s)			
1) X Notice of References Cited (PTO-892)	4) Interview Summar	v (PTO-413)	
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	oate	FO)
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ol>	6) Other:	Patent Application (PTO-1	DZ)

Application/Control Number: 10/709,421 Page 2

Art Unit: 2838

#### **DETAILED ACTION**

### **Drawings**

1. Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.121(d)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

#### Oath/Declaration

2. The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because: It was not executed in accordance with either 37 CFR 1.66 or 1.68.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Page 3

Art Unit: 2838

4. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Cohen (5,438,505).

Cohen discloses an adaptive control method for power converter in Figs. 1-5. With respect to claim 1, the output voltage of the power converter is regulated by causing the input current of the converter to be proportional to its output current and inversely proportional to its input voltage, Fig. 3 and equations  $I_i = K * V_c$  and  $V_c = I_o / V_o * V_i$ , therefore the input current is proportional to the output current and inversely proportional to input voltage.

With respect to claim 2, the output current of the power converter is regulated by causing the input current of the converter to be proportional to its output voltage and inversely proportional to its input voltage, Fig. 2 and equations  $P_i = V_i * I_i$ ,  $P_i = K * V_c$  and Vc = Vo / Vi, therefore the input current is proportional to the output voltage and inversely proportional to the input voltage.

With respect to claim 3, regulate the output voltage of the power converter by causing the input current of the converter to be proportional to its output current, Fig. 3 and equations  $I_i$ = K \*  $V_c$  and  $V_c$ =  $I_o$  /  $V_o$  \*  $V_i$ , therefore the input current is proportional to the output current.

With respect to claim 4, regulated the output current of the power converter by causing the input current of the converter to be proportional to is output voltage, Fig. 2 and equations  $P_i = V_i * I_i$ ,  $P_i = K * V_c$  and  $V_c = V_o/I_o$ , therefore the input current of the converter is proportional to the output voltage.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adolf Berhane whose telephone number is 571-272-2077. The examiner can normally be reached on Monday- Friday 8 AM to 6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on 571-272-2084. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Adolf Berhane Primary Examiner Art Unit 2838